

Serial No. 10/643,107

Docket No. – ITW 0003 PA/13247

Amendments to the Claims

The following listing of claims will replace all prior versions, and listings, of claims in the present application:

1. (Canceled)
2. (Currently Amended) The airless application system of claim ~~[[1]]~~14 wherein the manual control is a trigger, and wherein a first trigger position is a rest position toward which the trigger is biased, and wherein a second trigger position is a substantially fully depressed position of the trigger.
3. (Original) The airless application system of claim 2 further comprising a trigger guard.
4. (Original) The airless application system of claim 2 further comprising a handle toward which the trigger moves for the second trigger position.
5. (Currently Amended) The airless application system of claim ~~[[1]]~~14 wherein the primary product container comprises:
 - a relatively rigid canister;
 - a collapsible bag within the relatively rigid canister, the collapsible bag containing a primary product;
 - a propellant in a space between the outside of the collapsible bag and the inside of the relatively rigid canister; and

Serial No. 10/643,107

Docket No. - ITW 0003 PA/13247

a valve connected to the relatively rigid canister, the valve comprising a primary product port in selective communication with the collapsible bag and a propellant port in selective communication with the space between the outside of the collapsible bag and the inside of the relatively rigid canister.

6. (Original) The airless application system of claim 5 further comprising a perforated tube sealed in the collapsible bag.

7. (Original) The airless application system of claim 5 wherein the valve further comprises a pressure relief port.

8. (Original) The airless application system of claim 5 wherein the propellant in the space between the collapsible bag and the relatively rigid canister is under a pressure of between about 20 and about 500 psig.

9. (Currently Amended) The airless application system of claim [[1]]14 further comprising a check valve adjacent to the sprayer tip.

10-11. (Canceled)

12. (Currently Amended) The airless application system of claim [[1]]14 further comprising a handle.

Serial No. 10/643,107

Docket No. - ITW 0003 PA/13247

13. (Canceled)

14. (Currently Amended) ~~The airless application system of claim 13~~ An airless application system comprising:

a primary product container; and

a sprayer in fluid communication with the primary product container, the sprayer

comprising:

a sprayer tip;

a primary product chamber for holding a primary product to be dispensed through the sprayer tip, the primary product chamber in selective fluid communication with the sprayer tip, the primary product chamber having an outlet;

a secondary product chamber for holding a secondary product to be dispensed through the sprayer tip, the secondary product chamber in selective fluid communication with the sprayer tip, the secondary product chamber having an inlet and an outlet, the secondary product chamber outlet in selective fluid communication with the sprayer tip;

a manual control which travels through a range, the range including a first position and a second position; and

a valve assembly responsive to the manual control,

wherein when the manual control is in the first position, the primary product chamber outlet and the secondary product chamber inlet are closed and the secondary product chamber outlet is open; and wherein when the manual control

Serial No. 10/643,107

Docket No. - ITW 0003 PA/13247

is in the second position, the primary product outlet and the secondary product chamber inlet are open and the secondary product chamber outlet is closed.

15. (Currently Amended) The airless application system of claim ~~[[13]]~~14 wherein when the manual control is moved from the first position to the second position, the secondary product chamber outlet is closed before the primary product chamber outlet and the secondary product chamber inlet are opened.

16. (Currently Amended) The airless application system of claim ~~[[13]]~~14 wherein when the manual control is moved from the first position to the second position, the secondary product chamber outlet is closed before the primary product chamber outlet is opened, and the primary product chamber outlet is opened before the secondary product chamber inlet is opened.

17. (Currently Amended) The airless application system of claim ~~[[13]]~~14 wherein when the manual control is moved from the second position to the first position, the primary product chamber outlet and the secondary product chamber inlet are closed before the secondary product chamber outlet is opened.

18. (Currently Amended) The airless application system of claim ~~[[13]]~~14 wherein when the manual control is moved from the second position to the first position, the secondary product chamber inlet is closed before the primary product chamber outlet is closed, and the primary product chamber outlet is closed before the secondary product chamber outlet is opened.

Serial No. 10/643,107

Docket No. - ITW 0003 PA/13247

19. (Currently Amended) The airless application system of claim ~~[[13]]~~14 wherein the manual control is a trigger, and wherein a first trigger position is a rest position toward which the trigger is biased, and wherein a second trigger position is a substantially fully depressed position of the trigger.
20. (Original) The airless application system of claim 19 further comprising a handle toward which the trigger moves for the second trigger position.
21. (Original) The airless application system of claim 20 wherein the handle has a cavity to contain the secondary product, the cavity in selective fluid communication with the secondary product chamber.
- 22-27. (Canceled)
28. (Currently Amended) The method of claim ~~[[27]]~~32 further comprising providing the secondary product in a secondary product chamber which is in selective fluid communication with the secondary product chamber outlet.
- 29-30. (Canceled)
31. (Currently Amended) The method of claim ~~[[27]]~~32 further comprising providing a check valve adjacent to the sprayer tip.

Serial No. 10/643,107

Docket No. – ITW 0003 PA/13247

32. (Original) ~~The method of claim 27~~ A method of airless spraying of a primary product and a secondary product comprising:

providing an airless application system comprising:

a primary product container; and

a sprayer in fluid communication with the primary product container, the sprayer comprising:

a sprayer tip;

a primary product chamber for holding a primary product to be dispensed through the sprayer tip, the primary product chamber in selective fluid communication with the sprayer tip, the primary product chamber having an outlet;

a secondary product chamber outlet in selective fluid communication with the sprayer tip;

a manual control which travels through a range, the range including a first position and a second position, wherein the manual control is a trigger, and wherein the first position of the manual control is a rest position toward which the trigger is biased, and wherein the second position of the manual control is a substantially fully depressed position of the trigger; and

a valve assembly responsive to the manual control, wherein when the manual control is in the first position, the primary product chamber outlet is closed; and wherein when the manual control is in the second position, the primary product outlet is open;

Serial No. 10/643,107

Docket No. – ITW 0003 PA/13247

providing a primary product to the primary product chamber from the primary product container;

moving the manual control from the first position to the second position, thereby opening the primary product chamber outlet;

dispensing the primary product from the sprayer tip;

moving the manual control from the second position to the first position, thereby closing the primary product chamber outlet;

providing the secondary product to the secondary product chamber outlet;

opening the secondary product chamber outlet after the primary product chamber outlet has been closed and dispensing the secondary product; and

closing the secondary product chamber outlet.

33. (Original) The method of claim 32 further comprising a handle toward which the trigger moves for the second trigger position.

34. (Original) The method of claim 33 wherein the handle has a cavity to contain the secondary product, the cavity in fluid communication with the secondary product chamber.

35. (Currently Amended) The method of claim [[27]]32 further comprising providing a secondary product chamber for holding a secondary product to be dispensed through the sprayer tip, the secondary product chamber having an inlet and the secondary product chamber outlet.

Serial No. 10/643,107

Docket No. – ITW 0003 PA/13247

36. (Currently Amended) ~~The method of claim 35~~ A method of airless spraying of a primary product and a secondary product comprising:

providing an airless application system comprising:

a primary product container; and

a sprayer in fluid communication with the primary product container, the sprayer comprising:

a sprayer tip;

a primary product chamber for holding a primary product to be dispensed through the sprayer tip, the primary product chamber in selective fluid communication with the sprayer tip, the primary product chamber having an outlet;

a secondary product chamber for holding a secondary product to be dispensed through the sprayer tip, the secondary product chamber having an inlet and a secondary product chamber outlet, the secondary product chamber outlet in selective fluid communication with the sprayer tip;

a manual control which travels through a range, the range including a first position and a second position; and

a valve assembly responsive to the manual control, wherein when the manual control is in the first position, the primary product chamber outlet and the secondary product chamber inlet are closed and the secondary product chamber outlet is open; and wherein when the manual control is in the second position, the primary product outlet

Serial No. 10/643,107

Docket No. – ITW 0003 PA/13247

and the secondary product chamber inlet are open and the
secondary product chamber outlet is closed;
providing a primary product to the primary product chamber from the primary product
container;
moving the manual control from the first position to the second position, thereby opening
the primary product chamber outlet;
dispensing the primary product from the sprayer tip;
moving the manual control from the second position to the first position, thereby closing
the primary product chamber outlet;
providing the secondary product to the secondary product chamber outlet;
opening the secondary product chamber outlet after the primary product chamber outlet
has been closed and dispensing the secondary product; and
closing the secondary product chamber outlet.

37. (Original) The method of claim 36 further comprising closing the secondary product chamber outlet before opening the primary product chamber outlet and the secondary product chamber inlet.

38. (Original) The method of claim 36 further comprising closing the secondary product chamber outlet before opening the primary product chamber outlet, and opening the primary product chamber outlet before opening the secondary product chamber inlet.

Serial No. 10/643,107
Docket No. – ITW 0003 PA/13247

39. (Original) The method of claim 36 further comprising closing the secondary product chamber inlet and the primary product chamber outlet before opening the secondary product chamber outlet.

40. (Original) The method of claim 36 further comprising closing the secondary product chamber inlet before closing the primary product chamber outlet, and closing the primary product chamber outlet before opening the secondary product chamber outlet.

41. (Original) A method of airless spraying of a primary product and a secondary product comprising:

providing a sprayer tip;

providing a primary product chamber having an outlet, the primary product chamber in selective fluid communication with the sprayer tip;

providing a secondary product chamber having an outlet and an inlet, the secondary product chamber in selective fluid communication with the sprayer tip;

providing a primary product to the primary product chamber;

closing the secondary product chamber outlet;

opening the primary product chamber outlet, thereby dispensing the primary product, the primary product chamber outlet being opened after the secondary product chamber outlet is closed;

providing a secondary product;

Serial No. 10/643,107

Docket No. – ITW 0003 PA/13247

opening the secondary product chamber inlet, thereby filling the secondary product chamber with the secondary product, the secondary product chamber inlet being opened after the primary product chamber outlet is opened;

closing the secondary product chamber inlet;

closing the primary product chamber outlet, thereby stopping the primary product from being dispensed, the primary product chamber outlet being closed after the secondary product chamber inlet is closed; and

opening the secondary product chamber outlet, thereby dispensing the secondary product, the secondary product chamber outlet being closed after the primary product chamber outlet is closed.

42. (Currently Amended) The airless application system of claim [[1]]14 wherein the primary product container comprises:

a relatively rigid canister;

a collapsible bag within the relatively rigid canister, the collapsible bag containing a propellant;

a primary product in a space between the outside of the collapsible bag and the inside of the relatively rigid canister; and

a valve connected to the relatively rigid canister, the valve comprising a primary product port in selective communication with the space between the outside of the collapsible bag and the inside of the relatively rigid canister and a propellant port in selective communication with the collapsible bag.

Serial No. 10/643,107

Docket No. – ITW 0003 PA/13247

43. (Original) The airless application system of claim 42 wherein the valve further comprises a pressure relief port in selective communication with the collapsible bag.

44. (Original) The airless application system of claim 42 wherein the valve further comprises a quick release air fitting.

45. (Original) The airless application system of claim 42 wherein the propellant is under a pressure of between about 20 and about 500 psig.